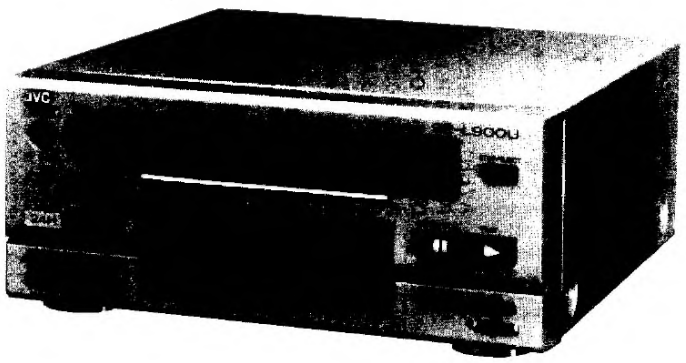
INSTRUCTIONS

JVC

SR-L900U

TIMELAPSE VIDEO CASSETTE RECORDER



For Customer Use:
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. **SR-L900U**

Serial No. _____

PGD30002-311

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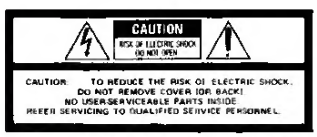
SAFETY PRECAUTIONS


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

ATTENTION
RISQUE D'ELECTROCUTION NE PAS OUVRIR
ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCUTION NE PAS OUVRIR LE BOITIER
AUCUNE PIECE INTERIEURE N'EST A REGLER PAR L'UTILISATEUR
SE REFERER A UN AGENT QUALIFIE EN CAS DE PROBLEME

Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension est suffisante pour provoquer l'électrocution de personnes.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretien importantes au sujet desquelles des renseignements se trouvent dans le manuel d'instructions.

* Ces symboles ne sont utilisés qu'aux Etats-Unis.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
This unit should be used with 120 V AC, 60 Hz only.
CAUTION:
To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:
The rating plate (serial number plate) is on the rear of the unit.

This product complies with D.O.C. Limits (C.R.C., c. 1374) pertaining to class B digital apparatus.

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION
CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

AVERTISSEMENT:
POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.
Ce magnétoscope ne doit être utilisé que sur du courant direct en 120 V, 60 Hz.
ATTENTION:
A fin d'éviter tout risque d'incendie ou d'électrocution, ne pas utiliser d'autres sources d'alimentation électrique.

REMARQUE:
La plaque d'identification (numéro de série) se trouve sur le panneau arrière de l'appareil.

Ce produit est conforme aux normes du M.D.C. (C.R.C., ch. 1374) s'appliquant aux appareils numériques de class B.

WARNING:
It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or cable program and in any literary, dramatic, musical, or artistic work embodied therein.

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Auto Rec mode, the video
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l (RM-G30U) is available.

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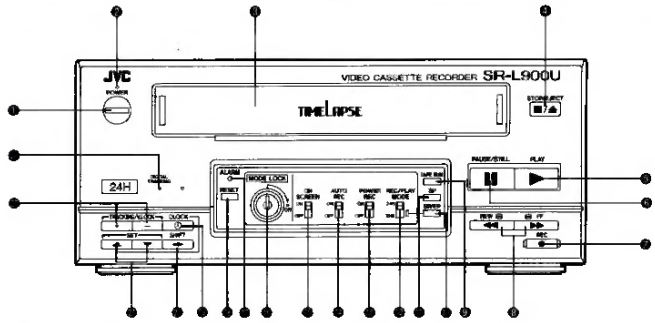
CONTROLS AND CONNECTORS

FRONT PANEL



❶ **POWER button**
❷ **POWER indicator**
Lights when the power is turned on.
❸ **Cassette loading slot**
❹ **STOP/EJECT button**
- Stops the tape.
- Ejects the cassette when pressed in the Stop mode.

❺ **PLAY button**
- Starts playback.
- Re-starts normal playback when pressed in the Still or Search mode.
- Re-starts recording when pressed in the Record-Pause mode.

❻ **PAUSE/STILL button**
- Temporarily stops recording when pressed in the Record mode.
- Displays a still picture when pressed in the Play mode.
- Advances the picture frame by frame when pressed in the Still mode.
- Engages slow-motion playback when pressed and held for more than 2 seconds in the Play mode.

❼ **REC button**
- Engages Record mode. Press PLAY while pressing this button to start recording. If the ON SCREEN switch is set to "ON", "R" appears on the screen.

❽ **REW/FF buttons**
- Starts rewind or fast-forward when pressed in the Stop mode.
- Starts high-speed shuttle search when pressed in the Play mode.
- Starts alarm search when pressed during playback of an alarm-recorded tape. The VCR enters the Still mode when the tape reaches the beginning of the alarm recording. (☞ p.19)

❾ **TAPE RUN indicator**
- Lights or blinks as shown below depending on the tape transport mode.

Mode	indication	Mode	indication
Stop	Goes off	Still	Blinks green (1Hz)*
Record	Lights red	Search	
Rec-Pause	Blinks red (1Hz)*	Slow	
Play	Light green	FF/REW	Blinks green (4Hz)*

*1Hz: Blinks once a second
4Hz: Blinks 4 times a second

❿ **SP/EP select button**
- Selects the SP or EP recording mode with the REC/PLAY MODE select switch set to "VHS".

⓫ **SP mode indicator**
- Lights during recording in the VHS SP mode.
- Lights during playback of an SP-recorded tape with the REC/PLAY MODE select switch set to "VHS".

⓬ **REC/PLAY MODE select switch**
- Selects tape speed in playback or recording.

24H: For 24-hour Timelapse mode.
VHS: For normal VHS mode. (For recording, select SP or EP with the SP/EP select button.) Tapes recorded in the SP or 24-hour Timelapse mode are played back in the SP mode. Tapes recorded in the EP mode are played back in the EP mode.

⓭ **REPEAT REC switch**
- Activates or defeats repeat recording function.

ON: The VCR automatically rewinds the tape at tape end, and starts recording again from the tape beginning.
OFF: Repeat recording is defeated. The VCR rewinds the tape at tape end, and stops at tape beginning.

⓮ **AUTO REC switch**
- Activates or defeats automatic recording function after power failure.

ON: Recording re-starts automatically when power is restored after a power failure. Also set to this position when recording with an external timer. (Only effective with cassettes with safety tab in place.)
OFF: Set to this position if the automatic recording function is not required, otherwise recordings could be erased by accident.

⓯ **ON SCREEN switch**
- ON: Time/date information is recorded together with the input signal and is superimposed on the monitor screen.

OFF: No information is recorded or superimposed.

⓰ **MODE LOCK key**
- Insert the provided key into this key hole and turn it to "ON" to lock the VCR in its current mode and disable all controls except the RESET button.

NOTES:
- If battery power is depleted, the Mode Lock function may be inoperative.

⓱ **ALARM indicator**
- Lights when alarm recording is started by an alarm signal input to the ALARM IN terminal on the rear panel.(☞ p.15)

⓲ **RESET button**
- Stops alarm recording. Also turns off the ALARM indicator.

⓳ **CLOCK button**
- Used for clock/date setting.(☞ p.11)

⓴ **SHIFT (➡) button**
- Moves blinking digit in clock/date setting.(☞ p.11)

㉑ **SET (▲ / ▼) buttons**
- To set data in clock/date setting.(☞ p.11)

㉒ **TRACKING/V.LOCK (+/–) buttons**
- Adjusts tracking of playback picture and vertical dancing of still picture.
- Adjusts the position of on-screen time/date indication.

㉓ **DIGITAL TRACKING indicator**
- Blinks while tracking is being adjusted and remains lit after completion of adjustment.

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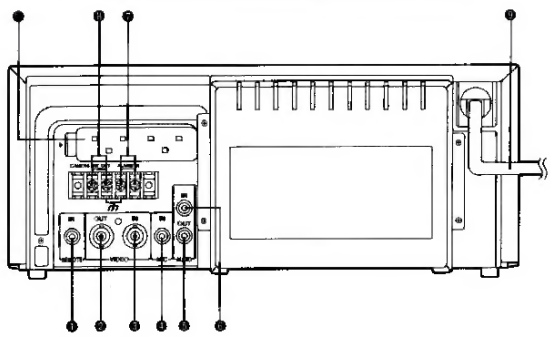
REAR PANEL

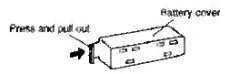


- **REMOTE IN connector (RCA)**
  - Connect the optional remote control RM-G30U.
- **VIDEO OUT connector (BNC)**
  - Outputs playback video signal or signal input to the VIDEO IN connector even with the power off.
- **VIDEO IN connector (BNC)**
- **MIC IN connector**
  - Connect a microphone (3.6 mm dia.). (When the audio signals are input to both the MIC IN and AUDIO IN connectors, mixed audio will be available.)
- **AUDIO OUT connector (RCA)**
- **AUDIO IN connector (RCA)**
- **ALARM IN terminals with GND**
  - Accepts alarm signals. This terminal uses an input-grounding type contact. (☞ p.21)
- **CAMERA SW OUT terminals with GND**
  - Delivers a command signal for camera switching to a sequential switcher. (☞ p.21)
- **Power cord**
  Connect to a 120 V AC, 60 Hz power outlet
- **Battery holder**
  - For the batteries backing up the time/date generator.

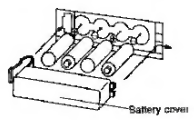
  NOTES:
  - Battery backup time may vary under different circumstances. When the power is always turned on, backup time will be approximately one year. In situations where an external timer is used or where the power is frequently turned on and off, backup time will be shorter.
  - When the backup batteries have been in use for a long period, check the time and date to confirm that data is correct.

Installing the batteries

1. Remove the battery cover as illustrated.



2. Insert four LR6/15A/L40 batteries as illustrated.



- Check that the batteries are inserted correctly.

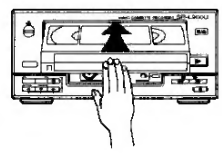
3. Replace the cover.

HANDLING VIDEO CASSETTES

LOADING

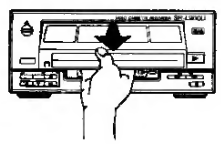
1. Insert a cassette with its label side facing you.
   - VCR power will come on automatically.
   - If the safety tab on the cassette is removed, playback starts automatically.

   NOTES:
   - Make sure a cassette has not already been loaded. When a cassette has already been inserted, the slot door will not open.



UNLOADING

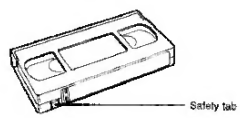
1. Press STOP/EJECT while in the Stop mode.
   - Even when the VCR power is off, simply press the STOP/EJECT button to unload a cassette.



WARNING
- Do not insert fingers or foreign objects into the cassette loading slot as this may result in personal injury or damage to the mechanism.
- Do not try to remove the cassette once automatic loading has started.

ACCIDENTAL ERASURE PREVENTION

- To prevent accidental recording on a recorded cassette, remove the cassette's safety tab.
- To record on it later, cover the hole with adhesive tape.



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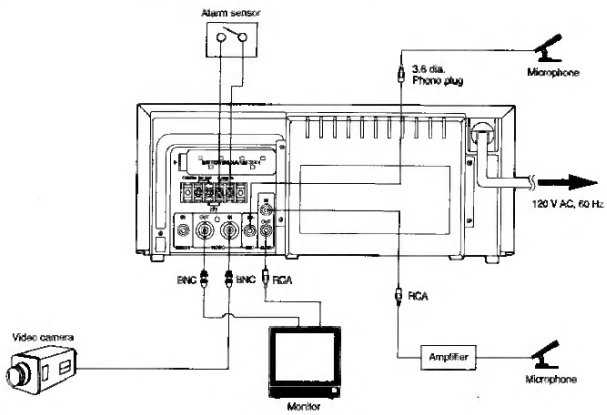
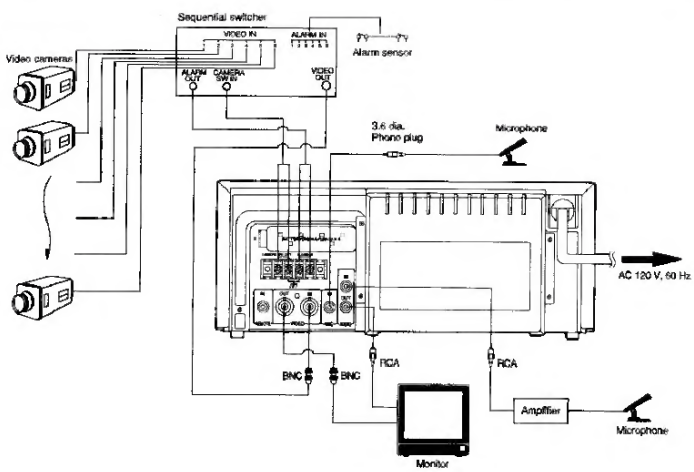
CONNECTIONS

CONNECTING TO A SINGLE CAMERA WITH A BUILT-IN SSG



1. Connect the VIDEO OUT and AUDIO OUT connectors to a monitor.
2. Connect the video output of the camera to the VIDEO IN connector.
3. If audio input is required, connect a microphone to the MIC IN or AUDIO IN connector via an optional amplifier.
4. If an alarm sensor is to be used, connect across the ALARM INPUT terminal and GND.
5. After completing connection, connect the power supply cord.

CONNECTING TO SEVERAL CAMERAS WITH A SEQUENTIAL SWITCHER



1. Connect the video cameras and alarm sensors to the sequential switcher.
2. Connect switcher's video output, alarm signal output, and camera switching signal input to the corresponding terminals of the recorder.
3. Connect a monitor to the VIDEO OUT and AUDIO OUT connectors.
4. After completing connection, connect the power supply cord.

NOTES:

- When using a sequential switcher, use genlock-capable video cameras.
- When using color cameras and monochrome cameras together, use the 24-hour Timelapse recording mode.

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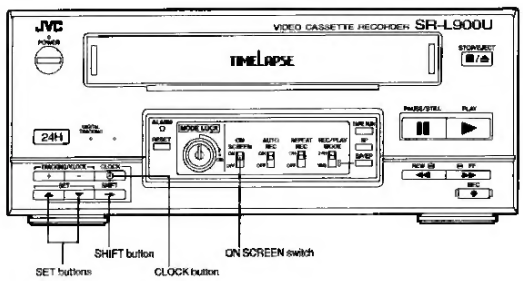
CLOCK/DATE SETTING

The clock can be set while referring to the On-Screen display. Time/date generation is not possible if the clock has not been set.

NOTES:
- On-Screen display is not available if no video signal is supplied.

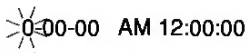


PROCEDURE

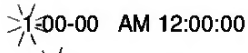
- Connect a monitor to the SR-L900U and turn on both units' power.
- Supply a video signal to the recorder's VIDEO IN terminal.

1. Set the ON SCREEN switch to ON.
   - Time/date display appears and blinks.

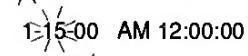
2. Press the CLOCK button.
   - The leftmost digit (Month) starts blinking.



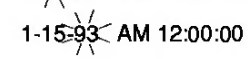
3. Enter desired value for "Month" with either SET button.



4. Press the SHIFT button to move the blinking digit and enter desired value for "Day" with either SET button.



5. Press the SHIFT button to move the blinking digit and enter desired value for "Year" with either SET button.



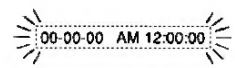
6. Press the SHIFT button to move the blinking digit and enter desired value for "Hour" with either SET button.

7. Press the SHIFT button to move the blinking digit and enter desired value for "Minute" with either SET button.

8. Press the SHIFT button to move the blinking digit and enter desired value for "Second" with either SET button.

9. Press the CLOCK button to end clock/date setting.
   - Time keeping starts.

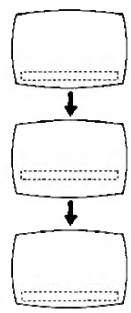
NOTES:
- After using the battery backup for a long period, confirm the time and date. (The clock may gain or lose time due to environmental variations.)
- If battery power is depleted, time/date data will be reset and the time/date display will blink.
- If battery power is depleted, malfunctions may occur in mode settings while the VCR is in the Mode-Lock state. (Such as in setting of automatic re-start of recording after power failure, repeat recording, On-screen mode, or recording/playback mode.)
- If the On-screen mode malfunctions, turn the power off and on again.



ON-SCREEN POSITION SETTING

The built-in time/date generator allows you to superimpose the time and date on the video image and record it. You can select one of two positions to superimpose it.

(During clock/date setting)
- Press either TRACKING/V.LOCK +/– button to move the cursor to the position where you want the superimposed characters to appear.
- Press "+" to move the cursor up and "–" to move it to initial position.



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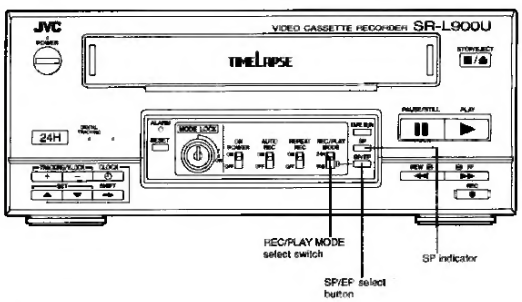
RECORDING

RECORDING MODE SELECTION



Select desired recording mode as shown below:

Mode	Available recording time (hour)				Recording interval (sec)	Audio recording	Camera switching interval (sec)	Tape speed
	T-120	T-90	T-60	T-30				
SP	2	1.5	1	0.5	0.017	Yes	0.033	33.35 mm/sec (Continuous)
EP	6	4.5	3	1.5	0.017	Yes	0.033	11.12 mm/sec (Continuous)
24H TL	24	18	12	6	0.216	Yes	0.433	2.58 mm/sec (Continuous)

- When recording in VHS SP mode:
  Set the REC/PLAY MODE select switch to VHS and select the SP mode with the SP/EP select button. (The SP indicator lights.)
- When recording in VHS EP mode:
  Set the REC/PLAY MODE select switch to VHS and select the EP mode with the SP/EP select button. (The SP indicator turns off.)
- When recording in 24-hour Timelapse mode:
  Set the REC/PLAY MODE select switch to 24H.

NOTES:
- Available recording times may vary with different tapes.

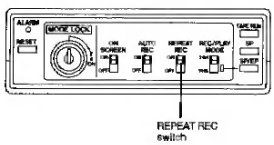
BASIC PROCEDURE

- Connect necessary components correctly. (☞ p.9)

1. Load a cassette with safety tab in place.
2. Select the recording mode as required. (☞ p.13)
3. Set ON SCREEN switch as desired. (☞ p.6)
4. Press PLAY while pressing REC to start recording.
   - The TAPE RUN indicator lights red.
   - If the ON SCREEN switch is set to ON, "R" appears beside the time/date display and is recorded.
5. To temporarily stop recording, press PAUSE/STILL.
   - The TAPE RUN indicator blinks red.
   - A white horizontal bar appears on the screen. As pause time elapses, the length of this bar decreases. After about 5 minutes the bar starts blinking, then disappears, and the recorder automatically enters the Stop mode to protect the tape.
6. To re-start recording, press PLAY.
7. To end recording, press STOP/EJECT.
   - The TAPE RUN indicator goes off.

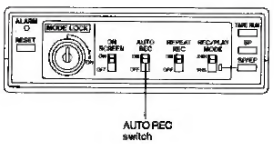
PAUSE MODE indicator

Repeat Recording
Set the REPEAT REC switch to ON. The recorder will automatically rewind the tape at tape end and start recording again from the tape beginning.


REPEAT REC switch

NOTES:
- If repeat recording is used in everyday operation, be sure to check the VCR's operating condition on a daily basis.
- Do not repeatedly engage repeat recording with the same tape (more then 50 times) otherwise picture quality will deteriorate.
- If repeat recording is used, previously-recorded alarm recordings will be erased and replaced with new material.

Automatic Re-start of Recording After Power Failure
Set the AUTO REC switch to ON. If a power failure occurs during recording, recording will re-start automatically when power is restored. The recording mode will be the same as when power was lost.


AUTO REC switch

NOTES:
- If power is restored in the 24-hour Timelapse mode, the last 1-minute segment recorded before power failure will be erased.

Recording check function
To check the last-recorded segment, press the REW (or FF) button in the Record-Pause mode. The tape will play back in reverse (or forward) for as long as the button is pressed. Releasing the button resumes the Record-Pause mode.

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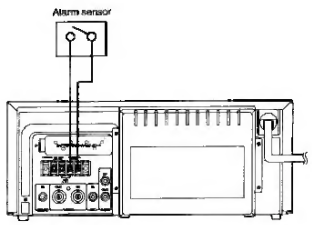
RECORDING (Continued)

ALARM RECORDING

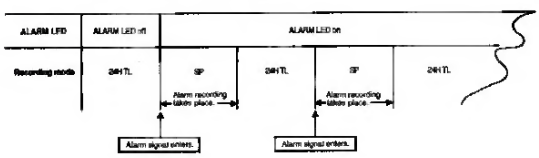
When an alarm signal is received while recording in the 24-hour Timelapse mode, the ALARM indicator on the front panel lights and the recording mode automatically switches to the SP mode with INDEX code recorded for more detailed coverage of the alarm incident. The unit returns to the 24-hour Timelapse mode after alarm recording. (When alarm recording is engaged from the VHS SP or EP recording mode, the ALARM indicator will light and an INDEX code will be recorded but the recording mode will not change.)



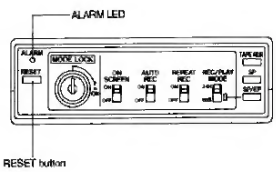
Alarm recording time varies as shown below:

Alarm signal input time	Alarm recording time
Less than 1 minute	Approx. 1 minute
1 minute or longer	1 minute or longer (as long as alarm signal is input)

- Connect an alarm sensor to the ALARM IN terminals on the rear panel.
- Set the REC/PLAY MODE select switch to 24H.



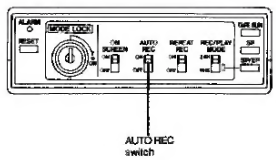
NOTES:
- Once alarm recording has been engaged, the ALARM LED remains lit even after alarm recording is finished.
- To stop alarm recording or turn off the ALARM LED, press the RESET button.
- An index code is recorded at the beginning of each alarm recording.



EXTERNAL TIMER RECORDING

Timer recording is possible when an external timer unit is connected.
- Connect necessary components correctly.

1. Load a cassette with safety tab in place.
2. Set recording mode as required. (☞ p.13)
3. Set the AUTO REC switch to ON.
   - Recording will start when power is supplied from the timer unit at the preset time.



NOTES:
- If a cassette with safety tab is loaded when power is being supplied from the external timer unit and the AUTO REC switch is set to ON, the VCR will automatically start recording. Set the AUTO REC switch to OFF before inserting the cassette to avoid accidental erasure.

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PLAYBACK

BASIC PROCEDURE

- Set the REC/PLAY MODE select switch to "VHS".

1. Load a pre-recorded cassette.
   - If the safety tab on the cassette has been removed, playback starts automatically.
2. Press PLAY to start playback.
   - The TAPE RUN indicator lights green.
   - Tapes recorded in the 24-hour Timlapse mode or VHS SP mode are played back in the SP mode.
   - Tapes recorded in the VHS EP mode are played back in the EP mode.
   - The SP indicator lights during playback in the SP mode.
3. Press STOP/EJECT to stop playback.

NOTES:
- When playing back a tape recorded in the 24-hour Timelapse mode, normal sound reproduction is not possible due to the difference in tape speeds. If you want to check the sound, set the REC/PLAY MODE select switch to "24H".
- The playback picture quality of tapes recorded in the 24-hour Timelapse mode may be inferior to that of tapes recorded in the VHS mode.

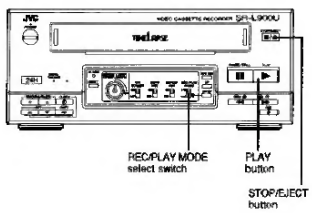
REWIND AND FAST-FORWARD

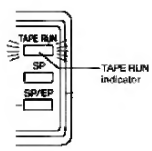
- Press REW or FF while in the Stop mode. The TAPE RUN indicator blinks.
- Press STOP/EJECT to stop rewind or fast-forward.

STILL AND FRAME ADVANCE

- Press PAUSE/STILL to view a still picture.
- The TAPE RUN indicator blinks green.
- Press PAUSE/STILL while in the Still mode to advance the picture frame by frame.
- Press PLAY to resume normal playback.

NOTES:
- To protect the tape, the Still mode is automatically canceled after about 5 minutes. The recorder will enter the Stop mode.





SLOW-MOTION PLAYBACK

- Press PAUSE/STILL for more than 2 seconds in the Play mode to engage slow-motion playback.
- Press PLAY to resume normal playback.

TIMELAPSE PLAYBACK

This function allows you to view tapes recorded in the 24-hour Timelapse mode at the original speed, facilitating more detailed examination.
- Set the REC/PLAY MODE select switch to 24H.
- Load a tape recorded in the 24-hour Timelapse mode and press PLAY.

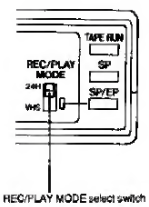
NOTES:
- When timelapse playback is engaged with an SP- or EP-recorded tape, noise bars will be more noticeable.
- Vertical dancing may occur during timelapse playback. This is not a malfunction.

SHUTTLE SEARCH

- Press REW while in the Play mode for high-speed reverse search. (The button can be locked and the TAPE RUN indicator blinks green.)
- Press FF while in the Play mode for high-speed forward search. (The button can be locked and the TAPE RUN indicator blinks green.)
- Press PLAY to resume normal playback.
- Search speeds are as follows:

SP-recorded tape	7 times normal speed
EP-recorded tape	21 times normal speed
TL-recorded tape	91 times normal speed

- For brief searching, keep REW or FF depressed for more than 2 seconds; releasing the button resumes normal playback.



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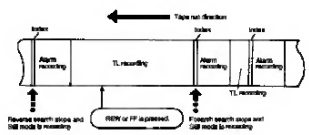
PLAYBACK (Continued)

ALARM SEARCH

This function gives you quick access to the start of an alarm recording.

1. Play back an alarm-recorded tape.
2. Press FF or REW.
   - The recorder automatically rewinds or fast-forwards the tape to the beginning of the alarm recording and enters the Still mode. If the tape contains more than one alarm recording, the recorder will access the nearest alarm recording.



TRACKING ADJUSTMENT

This VCR is equipped with automatic Digital Tracking to ensure the best possible picture during SP/EP playback.

- When playback starts, tracking is automatically adjusted.
- The DIGITAL TRACKING indicator blinks during adjustment and remains lit after completion of adjustment.
- Automatic tracking is effective only during normal playback.

If you wish to adjust tracking manually, you can override this function.

1. Press TRACKING "–" and "+" simultaneously to cancel the Auto Tracking mode.
   - The DIGITAL TRACKING indicator turns off.
2. Adjust tracking by pressing TRACKING "–" or "+" to minimize noise bars.

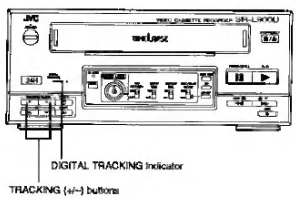
NOTES:

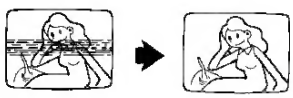
- When a cassette is inserted or the power is turned off and on, Auto Tracking resumes automatically.
- To manually return to the Auto Tracking mode, press both TRACKING buttons simultaneously.
- Manual tracking is not available in timelapse playback. It is only effective in the SP or EP mode.

Tracking Adjustment in Slow, Still Playback

The DIGITAL TRACKING indicator turns off when a mode other than normal playback is entered.

- To adjust tracking during slow-motion playback, simply press either TRACKING button to minimize noise bars.
- To adjust tracking during still playback, press PAUSE/STILL a few more times to minimize noise bars.

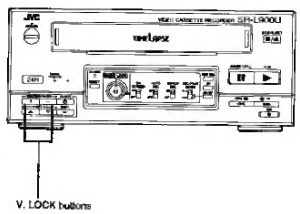




V.LOCK ADJUSTMENT

Vertical dancing in still pictures can be corrected with the V.LOCK buttons.

- Press either V.LOCK button to minimize vertical dancing.



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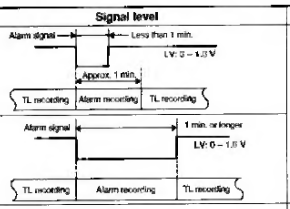
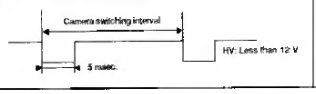
TROUBLESHOOTING GUIDE

Symptoms	Check points
The VCR power cannot be turned on.	• Is power cord plugged in? — Plug it into a 120 V AC outlet.
Tape control buttons will not function.	• Has the MODE LOCK key been turned to ON? — Turn it counterclockwise to cancel the MODE LOCK.
Recording will not start.	• Is the cassette loaded? • Has the cassette's safety tab been removed? — Reseal the slot with adhesive tape.
Time/date generation is not available.	• Is the ON SCREEN switch set to ON? — If not, set to ON. • Is the video signal supplied to the VIDEO IN terminal? — Supply video signal to the VIDEO IN terminal.
Tape is running but there is no playback picture.	• Is the monitor connected correctly? • Is the monitor's input select switch set correctly?
Noise appears during search.	• This is normal, not a malfunction.
Noise appears during playback.	• Refer to "TRACKING ADJUSTMENT". (☞ p.19)
Playback picture is blurred or interrupted.	• Video heads may be dirty. — Head cleaning is necessary. Use a head-cleaning cassette. If the problem persists, consult your JVC dealer.

INPUT/OUTPUT TERMINAL SIGNAL LEVELS

Terminals	Signal level	Remark
ALARM IN		Input at low level
CAMERA SW OUT		Output at low level

SPECIFICATIONS

GENERAL

Power requirement	:	AC 120 V, 60 Hz
Power consumption	:	14 W
Temperature		
Operating	:	5°C to 40°C (41°F to 104°F)
Storage	:	–20°C to 60°C (–4°F to 140°F)
Operating humidity	:	35% to 80%
Operating position	:	Horizontal only
Dimensions (WxHxD)	:	275 x 115 x 342 mm (10-7/8" x 4-9/16" x 13-1/2")
Weight	:	5.0 Kg (11.1 lbs)
Format	:	VHS NTSC standard
Tape width	:	12.65 mm
Tape speed	:	33.35 mm/sec (VHS SP) 11.12 mm/sec (VHS EP) 2.56 mm/sec (24H TL)
Recording and playback time	:	2 (VHS SP), 6 (VHS EP), 24 hours (24H TL) with T-120 cassette

VIDEO

Signal system	:	NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording system	:	
Luminance	:	FM recording
Chroma	:	Down-converted direct recording
Input	:	0.5 to 2.0 Vp-p, 75 ohms, unbalanced (BNC)
Output	:	1.0 Vp-p, 75 ohms, unbalanced (BNC)
Signal-to-noise ratio	:	45 dB (VHS SP)
Horizontal resolution	:	240 lines (VHS SP)

AUDIO

Number of tracks	:	1 (Normal)
Input: Line	:	–8 dBs, 50 k-ohms, unbalanced (RCA)
Mic	:	–67 dBs, 600 ohms, unbalanced
Output	:	–8 dBs, 1 k-ohm, unbalanced (RCA)
Frequency response	:	100 Hz to 10,000 Hz (VHS SP)

TIME/DATE GENERATOR

Display	:	Month, day, year, hours, minutes, seconds
Character size	:	16 H

ALARM

Input	:	Input-grounding type contact

ACCESSORIES

"LR6/t5A/L40" battery x 4, Mode-lock key x 2

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